

**APPLICATION FOR BENEFICIAL WATER USE PERMIT**  
**HYDROGEOLOGIC ASSESSMENT REPORT ADDENDUM**

§§ 85-2-361, MCA  
ARM 36.12.120

This addendum must be completed and the required information attached to a permit application if the point of diversion is located within a basin closure area. This information must be provided by a person qualified under 85-2-361(2).

Attachments must be labeled as shown in the sections below (i.e: 3.a). If a section is not applicable, label the section as Not Applicable or NA.

Prepared By: \_\_\_\_\_ Title: \_\_\_\_\_

I am a ☐ Hydrogeologist ☐ Qualified Scientist – Specify \_\_\_\_\_  
☐ Qualified Licensed Professional Engineer

**1. Area of Effect**

1.a What is the source aquifer? \_\_\_\_\_

Is the area of groundwater that will be affected by the proposed use smaller than the limits of the aquifer? If so, explain.

\_\_\_\_\_

1.c What surface waters will potentially be affected? Include surface waters specified under § 85-2-361(1)(a), MCA that are subject to an existing appropriation right.

\_\_\_\_\_

**2. Geology and Parameters of the Aquifer System**

2.a What geologic formation is the proposed well completed in?

\_\_\_\_\_

2.b Parameters of the aquifer system.

2.b.1 What is the lateral extent and thickness of the aquifer?

\_\_\_\_\_

2.b.2 The aquifer is: ☐ confined or ☐ unconfined

2.b.3 What is the effective hydraulic conductivity of the aquifer? \_\_\_\_\_

2.b.4 What is the transmissivity of the source aquifer? \_\_\_\_\_

2.b.5 What is the storage coefficient of the source aquifer? \_\_\_\_\_

2.b.6 What is the flow direction of ground water and rate of movement? \_\_\_\_\_

\_\_\_\_\_

**3. Beneficial Use and Potentially Affected Water Rights**

3.a ☐ Yes ☐ No Is the proposed amount to be diverted similar to the amount diverted for other beneficial uses like the proposed use? If not, explain.

\_\_\_\_\_

3.b What evidence do you have that water is physically available for the proposed use?

\_\_\_\_\_

\_\_\_\_\_

**4. Net Depletion Analysis**

4.a The volume of net depletion resulting from the proposed use is:

☐ Volume diverted ☐ Volume consumed ☐ Other

Explain your answer:

\_\_\_\_\_

\_\_\_\_\_

4.b The timing of net depletion resulting from the proposed use is:

☐ Constant year-round ☐ Equal to the timing of withdrawal ☐ Other

Explain your answer:

\_\_\_\_\_

\_\_\_\_\_

4.c ☐ Yes ☐ No Will net depletion, if any, result in adverse effect?

4.d ☐ Yes ☐ No Does the proposed use include wastewater treatment? If yes, describe.

\_\_\_\_\_

\_\_\_\_\_

4.e How much conveyance loss will occur from the proposed project? \_\_\_\_\_

Describe how this amount was determined. Include information about the distribution and storage system.

\_\_\_\_\_

\_\_\_\_\_

4.f The volume of return flow from the proposed use is:

☐ The volume diverted minus the volume consumed ☐ Other

Explain your answer:

\_\_\_\_\_

\_\_\_\_\_

4.g The timing of return flows resulting from the proposed use is:

☐ Constant year-round ☐ Immediate ☐ Other

Explain your answer:

\_\_\_\_\_

\_\_\_\_\_

4.h The location of return flows:

☐ The potentially affected surface waters identified in 1.c ☐ Other

Explain your answer:

\_\_\_\_\_

\_\_\_\_\_

**5. Water Quality Report**

5.a ☐ Yes ☐ No Are there existing documented hazards that could be affected or exacerbated by the proposed project, such as areas of subsidence? If so, describe a plan to mitigate any of those conditions or impacts. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5.b ☐ Yes ☐ No Have any water quality permits been issued for this project? If so, attach copies of any to this report.

**NOTE:** Information required for the hydrogeologic assessment may not be sufficient to meet applicable criteria under [85-2-311](#), MCA, including but not limited to adverse effect to a prior appropriator. The applicant for a beneficial water use permit pursuant to [85-2-311](#), MCA, is responsible for providing sufficient evidence to meet all applicable criteria.